

Title (en)

BICYCLIC HETEROAROMATIC COMPOUNDS USEFUL AS LH AGONISTS

Title (de)

BIZYKLISCHE HETEROAROMATISCHE VERBINDUNGEN ALS LH-AGONISTEN

Title (fr)

COMPOSES HETEROAROMATIQUES BICYCLIQUES UTILES EN TANT QU'AGONISTES DE L'HORMONE LUTEINISANTE (LH)

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Application

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Abstract (en)

[origin: WO0061586A1] The invention relates to a bicyclic heteroaromatic derivative compound according to general formula (I), or a pharmaceutically acceptable salt thereof, wherein R<1> is NR<5>R<6>, OR<5> or R<7>; R<5> and R<6> are independently selected from H, (1-8C)alkyl, (2-8C)alkenyl, (2-8C)alkynyl, (3-8C)cycloalkyl, (2-7C)heterocycloalkyl, alkyl(1-8C)carbonyl, (6-14C)arylcarbonyl, (6-14C)aryl or (4-13C)heteroaryl, or R<5> and R<6> together are joined in a (2-7C)heterocycloalkyl ring; R<7> is (3-8C)cycloalkyl, (2-7C)heterocycloalkyl, (6-14C)aryl or (4-13C)heteroaryl, R<2> is (1-8C)alkyl, (2-8C)alkenyl, (2-8C)alkynyl, or (6-14C)aryl or (4-13C)heteroaryl, both optionally substituted with one or more substituents selected from (1-8C)alkyl, (1-8C)alkylthio, (1-8C)(di)alkylamino, (1-8C)alkoxy, (2-8C)alkenyl, or (2-8C)alkynyl; R<3> is (1-8C)alkyl, (2-8C)alkenyl, (2-8C)alkynyl, (3-8C)cycloalkyl, (2-7C)heterocycloalkyl, or (6-14C)aryl or (4-13C)heteroaryl, both optionally substituted with one or more substituents selected from (1-8C)alkyl, (1-8C)(di)alkylamino or (1-8C)alkoxy; X is S, O or N(R<4>); R<4> is H, (1-8C)alkyl, (1-8C)alkylcarbonyl, (6-14C)arylcarbonyl or (6-14C)aryl(1-8C)alkyl; Y is CH or OH; Z is NH₂ or OH; A is S, N(H), N(R<9>), O or a bond; R<9> can be selected from the same groups as described for R<2> and B is N(H), O or a bond. The compounds of the invention have LH receptor activating activity and can be used in fertility regulating therapies.

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